



ELEVATION
Scale: None

Note:

1. Increase the size of each of the first three normal main vertical reinforcing steel bars, on each side of the wall opening. New bar size shall be such that each increase in bar area shall at least equal $\frac{1}{6}$ the total area of the main reinforcing steel that has been cut.
2. When pipe size is over 3'-0", sufficient horizontal bars shall be added over and below opening to transfer load to adjacent full sections of wall.
3. In no case shall concrete cover be less than 2".

FHWA APPROVAL
DATE: 12-12-79

APPROVAL	
<i>L.S. Friedman</i> DIRECTOR OFFICE OF BRIDGE DEVELOPMENT	
DATE: 7/26/79	
REVISIONS	
SHA	FHWA
12-4-84	6-8-90
7-2-93	.
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FOR OFFICE USE ONLY

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF BRIDGE DEVELOPMENT

REINFORCEMENT ADJUSTMENT
AT UTILITY AND/OR PIPE OPENING IN WALL

STANDARD NO. M(6.03)-79-77

SHEET 1 OF 1

MISCELLANEOUS